SEQUENCE LISTING

<110> Chandrashekar, Ramaswahy Morales, Tony H.

<120> Parasitic Helminth Cuticlin Proteins, Nucleic Acid Molecules, and Uses Thereof

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Val Val His Ser Cys Phe Val Asp Asp Gly Asn Gly Asp Thr Val Glu 195 200 205

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Met	Ala	Gly	Gln	Glu	Ala	His	Val	Tyr	Lys	Tyr	Ala	Asp	Arg	Ser	Glu
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								-1 -	. m:	. 71-	Tua	Clu	Pro	uie	Sar
Leu			Gln	Cys		11e		TTE	i ini	116	г цуз 140		. PIO	ura	Ser
	130					133						•			
Glu	Cvs	Pro	Arc	ı Pro	Gln	Cys	Thr	Glu	ı Pro	o Glr	n Gly	Phe	Gly	Ala	Ile
145			•	•	150					155	5				160
														_	
Lys	Ser	Gl	y Gli			Ala	Ala	Va:	L Ly	s Se:	r Ala	a Ala	Ala	175	Ala
				165	5				17	U				1/3	,
_	67	. " » »		- Ta-	, Ta:	, 501	- Pro) Ar	a T.e	u Il	e Lvs	s Lvs	s Arc	g Sei	: Ile
PIO	GIL	T WT	a 3e.	r ner							-	-		^	

Asn Ser Asp Asn Thr Val Asp Val Ser Thr Gly Phe Ser Thr Val Asp 195 200 205

Ile Thr Glu Glu Asn Pro Asn Phe Ser Ala Asn Arg Leu Ser Ser 220 215 210

Thr Ser Arg Glu Gln Phe Asn Gly Ile Phe Cys Ile Ala Ser Asn Asp 235 230 225

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gcaa	tttc	aa a	ttaa	tcat	ל לני	gcta	alle	Lat	Lacc	cca	2000		-			
ctga	gaaq	raa a	tcag	gaag	a aa	gaag	caaa	aag	ttaa	atg	ttg	cat	atg	caa	att	175
3 ·	-									Met	Leu	His	Met	Gin	. тте	
										1				5		
.	+	+++	++a	tca	tat	atα	ata	ata	gca	agt	att	aat	gct	att	cca	223
Cys	Ser	Phe	Leu	Ser	Tyr	Met	Ile	Ile	Ala	Ser	Ile	Asn	Ala	Ile	Pro	
Cys	001		10		-			15					20			
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Ile	Asp		Gly	Val	Glu	Ser	30	PIO	GIU	176		35	011			
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Ser	Ile	Thr	Val	Asn	Phe	Asn	Thr	Arg	Asn	Pro	Phe	Glu	Gly	His	Val	
	40					45		•			50					
				 .	tac	2 A+	+בב	Caa	aat	tat	cat	agt	gat	gaa	ggt	36
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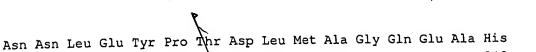
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gga	cgt	cag	gta	gcc	gga	ata	tca	tta	ccg	ttt	gat	tca	tgt	aat	gtc	415
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gca	cgt	aca	cgt	tcg	tta Len	aat Asn	cca Pro	cgt Ara	gga Glv	ata Ile	ttt Phe	gtc Val	aca Thr	gct Ala	gtt Val	463
Ala	Arg	1111	90		Бец	11011		95	1				100.			
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Val	Val	105		Phe	His	Pro	110	Pne	TTE	Int	Lys	115	ASP	Arg	1111	
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Tyr	120		u Glr	. Cys	Phe	Tyr 125	Met	GIU	Ala	Asp	Lys 130	THE	vaı	Ser	1111	
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Gln 135		e Gl	u Vai	l Ser	: Glu 140		Thr	Thr	vai	145	e Ala	Int	GII	rreu	150	
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Pro	Me	t Pr	o Va	l Cys	arç	Tyr	Glu	Ile	Lev	ı Ası	Gly	gly	Pro	Thr 165	Gly	
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Glı	n Pr	o Va	17 17		r Ale	a ASI	1 116	175			o va.	,.	18	0	s Trp	
ac	a tg	t ga	at to	t ga	a ac	a gtt	gat	ace	c tt	c tg	t gct	t tto	g gt	a cai	t tcc	751
Th	r Cy	s As		r Gl	u Th	r Val	1 Asp 190		r PN	e Cy	S Ale	19	i va 5	T UT	s Ser	
tg	t tt	t gt	tt ga	ıt ga	t gg	c aa	t gg¹	t ga	c ag	t at	t aa	t tt	a at	t aa	t gaa	799
Су	s Ph 20		al As	p As	p Gl	y As: 20		y As	p Se	r Il	e As 21	n Le	u II	e As	n Glu	
ga	a g	ga t	gt go	a tt	a ga	t cg	a ta	t ct	t ct	a aa	it aa	t tt	g ga	a ta	t cca	847
G1 21		Ly C	ys A	la L∈	u As 22		g Ty	r Le	u Le	u As 22	sn As 25	n Le	u Gl	u Ty	r Pro 230	
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ac тч	et g	at c	ta a eu M	tg go et Al	ct go la Gl	gc ca Ly Gl	ıa ga .n Gl	a go .u Al	a Hi	ic gr	ta ta al Ty	r Ly	s Ty	yr Al	La	0,72
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215

210

220



235

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225

230

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